

**PRODUCTION OF ANTIMICROBIAL PAPER, ANTIMICROBIAL PAPER AND  
PRODUCTION OF ANTIMICROBIAL CORRUGATED BOARD**

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**Applicant:** RENGO CO LTD  
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**- international:** D21H21/36; D21H19/20  
**- european:**  
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**Abstract of JP2000248495**

**PROBLEM TO BE SOLVED:** To obtain an antimicrobial paper having excellent antimicrobial properties by using a p-hydroxy benzoic acid ester as an antimicrobial agent, to provide both a method for producing the antimicrobial paper and a method for producing an antimicrobial corrugated board.

**SOLUTION:** The surface of a paper to be subjected to antimicrobial treatment is coated with a coating solution containing at least p-hydroxybenzoic acid ester and a polyhydric aliphatic alcohol. Generally a 2-3C polyhydric aliphatic alcohol, especially glycerol is preferably used as the polyhydric aliphatic alcohol. After the coating of the coating solution, the paper may be coated with a varnish. In the case of producing an antimicrobial corrugated board, a corrugated board liner coated with the coating solution containing at least the p-hydroxybenzoic acid ester and the polyhydric aliphatic alcohol and further coated with a varnish comprising a PVA as a film-forming polymer is prepared and is laminated to both the sides of a core paper having a corrugated section.

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**14. Antibacterial paper and paperboard or corrugated board and antibacterial coating for their manufacture**

**CAS SECTION-** 143

**CAS SUBSECTION-** 007

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**NO-ABSTRACT**

**IDENTIFIER(S)-** antibacterial coating hydroxybenzoate ester polyhydric alc paper

**CAS REGISTRY/EC NUMBER(S)-** 56-81-5 **HEADING PARENT-** 1,2,3-Propanetriol

**CAS REGISTRY/EC NUMBER(S)-** 94-13-3 **HEADING PARENT-** Benzoic acid --4-hydroxy-

**CAS REGISTRY/EC NUMBER(S)-** 94-26-8 **HEADING PARENT-** Benzoic acid --4-hydroxy-

**CAS REGISTRY/EC NUMBER(S)-** 4247-02-3 **HEADING PARENT-** Benzoic acid --4-hydroxy-